

## Patent Claims

1. xDSL line tester, particularly an ADSL line  
5 tester, having
  - means (3) for generating at least one polling frequency signal of prescribed shape and duration which is intended for the connection test,
  - means (4) for transmitting the frequency signal  
10 onto the line,
  - means (5, 7) for detecting at least one response frequency signal transmitted by a remote station on the line in response to the polling frequency signal, and
  - means (12) for signaling setup of a connection to  
15 the remote station on the basis of detection of the response frequency signal.
2. xDSL line tester according to claim 1, in which
  - the generating means (3) are designed for  
20 generating at least one R tone based on the "ANNEX A" specification published by the ITU (International Telecommunication Union).
3. xDSL line tester according to claim 1 or 2, in  
25 which
  - the detection means are designed for detecting at least one C tone based on the "ANNEX A" specification published by the ITU (International Telecommunication Union).
- 30 4. xDSL line tester according to claim 1, in which
  - the generating means (3) comprise a frequency generator (particularly a sine wave generator).
- 35 5. xDSL line tester according to claim 1, in which
  - the detection means (5, 7) have a high pass filter (5) and an integrator (7).

6. xDSL line tester according to claim 1, in which  
- the signaling means (12) comprise a light emitting diode.
- 5 7. xDSL line tester according to claim 1, which  
- comprises a housing which has the signaling means (12) on an outer wall.
- 10 8. xDSL line tester according to claim 7, in which  
- an outer wall of the housing has a pushbutton switch (11) arranged on it which a user can use to input a start signal for the test procedure.
- 15 9. xDSL line tester according to claim 1, having  
- a central processor unit (1) which is connected to the generating means (2) and to the detection means (5, 7) and in which  
- the shape and duration of the polling frequency signal which is to be emitted have been programmed.